

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/656,811DATE: 08/21/96  
TIME: 09:58:29

INPUT SET: S12262.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

## (1) General Information:

**ENTERED**(i) APPLICANT: Bartsch, Dusan  
Kandel, Eric R.  
Ghirardi, Mirella(ii) TITLE OF INVENTION: A METHOD FOR ENHANCING LONG-TERM MEMORY  
IN A SUBJECT AND USES THEREOF

(iii) NUMBER OF SEQUENCES: 20

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Cooper & Dunham LLP  
(B) STREET: 1185 Avenue of the Americas  
(C) CITY: New York  
(D) STATE: New York  
(E) COUNTRY: U.S.A.  
(F) ZIP: 10036

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:  
(B) FILING DATE:  
(C) CLASSIFICATION:

## (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: White, John P.  
(B) REGISTRATION NUMBER: 28,678  
(C) REFERENCE/DOCKET NUMBER: 50865/JPW/JML

## (ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 212-278-0400  
(B) TELEFAX: 212-391-0525

## (2) INFORMATION FOR SEQ ID NO:1:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 379 amino acids

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47 (B) TYPE: amino acid  
48 (C) STRANDEDNESS: single  
49 (D) TOPOLOGY: linear  
50

51 (ii) MOLECULE TYPE: peptide  
52  
53  
54  
55

56 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
57

58 Met Glu Leu Asp Leu Trp Ser Glu Asp Phe Gln Leu Ala Arg Glu Trp  
59 1 5 10 15  
60

61 Gly Leu Glu Met Pro Val Val Gln Thr Asp Gly Gln Phe Gly Asp Leu  
62 20 25 30  
63

64 Lys Ser Thr Ser Arg His Gly Gly Asp Glu Ser Leu Ser Leu Gln Pro  
65 35 40 45  
66

67 Gln Gly Ala Thr Leu Lys Leu Glu Pro Phe Glu Glu Asp Val Leu Gly  
68 50 55 60  
69

70 Ala Glu Trp Met Glu Ser Ser Asp Leu Gly Ser Phe Leu Asp Ala Leu  
71 65 70 75 80  
72

73 Gly Asp Asn His Glu Arg Leu His Pro Phe Glu Ser Asn Leu Leu Glu  
74 85 90 95  
75

76 Phe Thr Ser Leu Ile Thr Pro Asp Asp Ser Thr Val Ser Lys Asp Ile  
77 100 105 110  
78

79 Leu Ser Ser Thr Leu Gln Phe Pro Thr Gln Pro Val Asn Ile Pro Leu  
80 115 120 125  
81

82 Tyr Ala Ser His Gly Ala Glu Asp Phe Ser Ala Glu Thr Glu Phe Glu  
83 130 135 140  
84

85 Asn His Leu Ser Pro Pro Asp Ser Pro Glu Gln Val Ala Pro Val Ile  
86 145 150 155 160  
87

88 Asn Leu Glu Pro Val Glu Leu Thr Ala Ser His Met Thr Val Ile Ser  
89 165 170 175  
90

91 Pro Asp Gly Leu Leu Gly Gly Met Glu Leu Ala Ser Glu Ser Leu Thr  
92 180 185 190  
93

94 Phe Thr Glu Leu Asp Phe Val Asn Phe Asn Asp Ser Ala Val Gly Ser  
95 195 200 205  
96

97 Ile Gly Gly Ala Glu Glu Leu Leu Gly Ser Pro Leu Ser Val Asp Asp  
98 210 215 220  
99

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100 Val Glu Ser Thr Ile Ser Phe Ser Gly Pro Ser Ser Pro Glu Thr Ser
101 225 230 235 240
102
103 Gln Ser Ser Ile Ile Glu Ser Ser Pro Glu Leu Tyr Lys Val Ile Ser
104 245 250 255
105
106 Thr Ser Ser Ile Asp Ala Ser Lys Arg Phe Ser Pro Tyr Ser Arg Ser
107 260 265 270
108
109 Ser Lys Ser Lys Gln Ser Val Lys Thr Ser Asp Ala Lys Ala Pro Arg
110 275 280 285
111
112 Lys Thr Arg Thr Pro Ala Gln Pro Val Pro Glu His Val Ile Met Glu
113 290 295 300
114
115 His Leu Asp Lys Lys Asp Arg Lys Lys Leu Gln Asn Lys Asn Ala Ala
116 305 310 315 320
117
118 Ile Arg Tyr Arg Met Lys Lys Lys Gly Glu Ala Gln Gly Ile Lys Gly
119 325 330 335
120
121 Glu Glu Gln Glu Leu Glu Glu Leu Asn Thr Lys Leu Lys Thr Lys Val
122 340 345 350
123
124 Asp Asp Leu Gln Arg Glu Ile Lys Tyr Met Lys Asn Leu Met Glu Asp
125 355 360 365
126
127 Val Cys Lys Ala Lys Gly Ile Gln Leu Lys Met
128 370 375
129
130

```

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```

146 Leu Asp Lys Lys Asp Arg Lys Lys Leu Gln Asn Lys Asn Ala Ala Ile
147 1 5 10 15
148
149 Arg Tyr Arg Met Lys Lys Lys Gly Glu Ala Gln Gly Ile Lys Gly Glu
150 20 25 30
151
152 Glu Gln Glu Leu Glu Glu Leu Asn Thr Lys Leu Lys Thr Lys Val Asp

```

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153		35		40		45										
154																
155	Asp	Leu	Gln	Arg	Glu	Ile	Lys	Tyr	Met	Lys	Asn	Leu	Met	Glu	Asp	Val
156		50					55					60				
157																
158	Cys	Lys	Ala	Lys	Gly	Ile	Gln	Leu	Lys							
159		65					70									
160																
161																

## (2) INFORMATION FOR SEQ ID NO:3:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: DNA (genomic)

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

TGACGTCA

8

## (2) INFORMATION FOR SEQ ID NO:4:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: DNA (genomic)

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

AGTATTGCGT CATC

14

## (2) INFORMATION FOR SEQ ID NO:5:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: DNA (genomic)

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206  
207  
208  
209 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
210  
211 ACTATTGCGC AATC 14  
212  
213 (2) INFORMATION FOR SEQ ID NO:6:  
214  
215 (i) SEQUENCE CHARACTERISTICS:  
216 (A) LENGTH: 20 base pairs  
217 (B) TYPE: nucleic acid  
218 (C) STRANDEDNESS: single  
219 (D) TOPOLOGY: linear  
220  
221 (ii) MOLECULE TYPE: DNA (genomic)  
222  
223  
224  
225  
226 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
227  
228 TTCCGCTTTC CATAAGTCGA 20  
229  
230 (2) INFORMATION FOR SEQ ID NO:7:  
231  
232 (i) SEQUENCE CHARACTERISTICS:  
233 (A) LENGTH: 20 base pairs  
234 (B) TYPE: nucleic acid  
235 (C) STRANDEDNESS: single  
236 (D) TOPOLOGY: linear  
237  
238 (ii) MOLECULE TYPE: DNA (genomic)  
239  
240  
241  
242  
243 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
244  
245 ACCTGAAAAT GATATTGTAC 20  
246  
247 (2) INFORMATION FOR SEQ ID NO:8:  
248  
249 (i) SEQUENCE CHARACTERISTICS:  
250 (A) LENGTH: 37 base pairs  
251 (B) TYPE: nucleic acid  
252 (C) STRANDEDNESS: single  
253 (D) TOPOLOGY: linear  
254  
255 (ii) MOLECULE TYPE: DNA (genomic)  
256  
257  
258

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/656,811**

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Line

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Original Text